

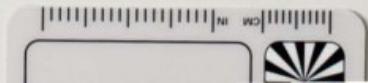
AIM Ann Report
1908 to 1909

Annual Report
OF THE
Auckland Institute
AND
Museum,
FOR
1908-1909.

ADOPTED AT THE ANNUAL MEETING
HELD FEBRUARY 22, 1909.

Buckland:
WILSON & HORTON, GENERAL PRINTERS, "HERALD" WORKS,
QUEEN AND WYNDHAM STREETS.

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Auckland INSTITUTE
OF THE 22 OCT 1928
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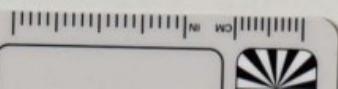
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OFFICERS OF THE Auckland Institute.

President:

PROF. C. W. EGERTON, M.A.

Vice-Presidents:

PROF. F. D. BROWN, M.A. E. V. MILLER.

Council:

BAGNALL, L. J.	POND, J. A.
BRIFFAULT, R., M.B.	REID, J.
HASZARD, H. D. M.	SEGAR, PROF. H. W., M.A.
PEACOCK, T.	STEWART, J., C.E.
PETRIE, D., M.A.	THOMAS, PROF. A. P. W.,
UPTON, J. H.	[M.A., F.L.S.]

Trustees:

BROWN, PROF. F. D., M.A.	REID, J.
PEACOCK, T.	STEWART, J., C.E.
UPTON, J. H.	

Secretary and Curator:

T. F. CHEESEMAN, F.L.S., F.Z.S.

Assistant and Preparator of Specimens:

L. GRIFFIN, F.Z.S.

Auditor:

W. GORRIE.

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The following

Periodicals and Publications of Societies

are subscribed to by the Institute:

NATURE
THE PHILOSOPHICAL MAGAZINE
THE AMERICAN JOURNAL OF SCIENCE
AMERICAN CHEMICAL JOURNAL
THE ELECTRICIAN
THE PHYSICAL REVIEW
ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE
ANNALEN DER PHYSIK
COMPTES RENDUS DES SEANCES DE L'ACADEMIE DES SCIENCES
ANNALS AND MAGAZINE OF NATURAL HISTORY
QUARTERLY JOURNAL OF MICROSCOPICAL SCIENCE
ANNALS OF BOTANY
THE BOTANICAL GAZETTE
ENCLER'S BOTANICAL YEAR BOOK
THE GARDENER'S CHRONICLE
THE GEOLOGICAL MAGAZINE
ZEITSCHRIFT DER DEUTSCHEN GEOLGISCHEN GESELLSCHAFT
SCIENCE PROGRESS
THE ECONOMIC JOURNAL
THE LANCET

TRANSACTIONS AND PROCEEDINGS OF THE ROYAL SOCIETY
TRANSACTIONS AND PROCEEDINGS OF THE ZOOLOGICAL SOCIETY.
THE ZOOLOGICAL RECORD
PUBLICATIONS OF THE RAY SOCIETY
JOURNAL OF THE CHEMICAL SOCIETY
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY.
QUARTERLY JOURNAL OF THE GEOLOGICAL SOCIETY
JOURNAL OF THE ROYAL AGRICULTURAL SOCIETY
THE GEOGRAPHICAL JOURNAL
REPORT OF THE BRITISH ASSOCIATION

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Report of the Council.

At the expiry of another year, and in conformity with the Rules of the Society, it is the duty of the Council to present to the members their forty-first Annual Report, dealing with the financial and general condition of the Institute, and the progress which it has made during the past year.

MEMBERS.—The number of new members elected during the year has been 17. The number withdrawn from the roll has been 10: 1 from death, 5 from resignation, and 4 from non-payment of subscription for more than two consecutive years. This leaves a net gain of 7, the total number on the roll at the present time being 183. The Council cannot but look upon this increase as disproportionately small. In the maintenance and extension of a public Museum, the Institute possesses an undoubted claim upon the liberality of the citizens of Auckland. It is to be hoped that a recognition of this fact will lead to a larger addition to the membership during the coming year, and that the increase will continue to keep pace with the advancing prosperity of the city and its rapidly increasing population.

FINANCE.—Full particulars respecting the financial position of the Institute will be found in the balance-sheet appended to this report; but it will be useful to give a brief synopsis here. The total revenue of the Working Account, excluding the balance in hand at the commencement of the year, has been £1095 7s 1d. The receipts for the previous year amounted to £1033 8s 3d, so that there has been an increase of £61 18s 10d. Examining the separate items it will be seen that the receipts from the invested funds of the Costley Bequest have amounted to £370 11s 3d, as against £355 12s for the previous year. The Museum Endowment, which now constitutes the chief source of the revenue of the Society, has yielded in rents and interest the sum of £426 15s 6d, as against £419 13s 2d for 1907-1908. £100 15s 1d have been transferred from the Mackechnie Library Bequest Account for the purchase of books, and £147 have been derived from the members' subscriptions. The total expenditure has amounted to £1477 16s 5d; but this includes the cost of the new work-room and other additions chargeable against the balance of the Government

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grant received last year, amounting altogether to £470 12s 6d. The ordinary expenditure has thus been £1007 3s 11d, leaving a credit balance of £271 10s 10d in the Bank of New Zealand. There is no change of any moment in regard to the invested funds of the Institute, the total amount of which is £16,358 4s 3d, showing an increase of £50 during the year.

MEETINGS.—Eight meetings have been held during the year, at which the following papers were read and discussed :—

1. Introductory Address—By the President, Mr. E. V. MILLER.
2. The Influence of Engineering upon Architecture—By F. E. POWELL, C.E.
3. The Problem of Cancer—By DR. R. BRIFFAULT.
4. Browning—By PROF. C. W. EGERTON.
5. On the Measurement of Electric Waves—By PROF. F. D. BROWN.
6. The Comparative Sanity of the Immigrant and Native-born—By PROF. H. W. SEGAR.
7. On the Trisection of an Angle—By PROF. H. W. SEGAR.
8. The Metallurgy of Gold and its Recent Improvements—By PROF. A. JARMAN.
9. The Maori Migration to New Zealand—By E. B. G. MOSS.
10. Maori Forest Lore—By ELDON BEST.
11. Captain Dumont D'Urville's Visit to Tolago Bay—Translated from the French by S. PERCY SMITH.
12. Notice of the Discovery of a species of Burmanniaceae in New Zealand—By T. F. CHEESEMAN.
13. Description of a New Species of Epilobium—By D. PETRIE.
14. Notes on Coleoptera from the Chatham Islands—By MAJOR T. BROUN.
15. Revision of the New Zealand Cossonidae—By MAJOR T. BROUN.

Most of the above papers have been forwarded to the New Zealand Institute, with the view of publication in the forthcoming volume of "Transactions." Volume 40 of the "Transactions," containing the papers read before the Institute during the year 1907, was not received for distribution until the end of October, although bearing the date "June, 1908," on the title page. It is much to be regretted that the delay in the appearance of the annual volume has apparently become of regular occurrence. Authors will ultimately hesitate to submit important memoirs to a Society which retains them for nearly two years before publication.

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For many years the meetings of the Institute have been held in the Library ; but the alterations made therein, alluded to in last year's report, have compelled the Council to hold them either in the Statue Hall or in the Maori House. Neither of these rooms can be considered at all suitable ; but the arrangement is the best that can be made, until the funds of the Institute permit of the erection of a properly equipped lecture room.

MUSEUM.—With the exception of a few days devoted to cleaning and re-arrangement, the Museum has been open to the public throughout the year. The hours of admission have remained, as before, from 10 a.m. to 5 p.m. on week days, and from 2 to 5 p.m. on Sundays. The attendance shows a considerable increase on that for the previous year, and is the largest yet recorded. The register kept by the janitor on Sundays proves that 20,896 people entered the Museum on that day, being an average of 402 for each Sunday. The largest attendance was 1897 on August 9, being the Sunday of the arrival of the American Fleet ; the smallest, 51, on March 8. On the nine chief holidays of the year, the number of visitors was 3271, being an average of 363. During the stay of the American Fleet there was an extraordinarily large attendance, the total for the week being 11,081, or an average of 1582 for each day. On Monday, August 10, 2797 visitors entered the Museum, being by far the largest number yet recorded. On ordinary week-days the visitors can only be counted occasionally, but the daily average is believed to be not less than 150. Deducting this from the attendance on holidays and during Fleet Week, this would make a total of 44,700, or of 78,051 for the whole year. Last year's estimate was 68,055.

In last year's report it was stated that the Council had decided to expend the greater portion of the balance remaining from the last Government grant, about £500, in providing a new work-room, a necessary adjunct to any Museum, and the want of which has long been felt. The room, which is situated in the basement under the Maori House, is 50ft by 30ft, and is very conveniently placed for the purposes of the Museum. It was completed early in the year, the total cost being a little under £400. The remainder of the grant has been utilised in erecting a range of showcase in the foreign ethnological room, presently to be alluded to, and in providing a new staircase to the basement rooms.

Considerable progress has been made in the Museum during the year. The whole of the alcoholic specimens have been remounted and placed on new shelving erected between the pillars of the gallery of the main hall, a situation in which they are much better inspected than before. The collection of foreign shells, formerly on the floor of the main hall, has also been moved

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to the gallery, the specimens having been cleaned and re-arranged. As foreshadowed in last year's report, a large amount of time and trouble has been spent in arranging, mounting, and labelling the foreign ethnological collection. It has been placed in the small hall adjoining the Maori House, and is now ready for public inspection. As the collection is an excellent one, and as a large part of it has never been previously exhibited, it will doubtless prove an attractive addition to the Museum.

A complete list of all additions and donations will be found in the appendix to the report, but special mention may be made of the following:—In the Maori Department an unusually large and fine greenstone hei-tiki; two bone harpoons, of a type new to the collection; an elaborately carved bone thatching needle; and several other interesting specimens obtained by purchase from various sources. Mr. G. Graham, who has previously made valuable contributions to the Maori collections, has placed the Museum under further obligations by presenting several articles, some being interesting additions to the collections. Mr. Winkle, of Mangawai, has presented an ancient Maori spade of a type entirely new to the Museum; and Mr. Mackenzie, of the Bay of Islands, has forwarded two beautifully carved bone barbs for pigeon spears. In the Zoological department the two most interesting additions consist of a specimen of the North Island Thrush, now a very rare bird indeed, presented by Mr. P. Barlow, of Opotiki; and one of the white-eyed duck, forwarded by Mr. H. Rowlands, of Hamilton. Finally, mention should be made of an old hand weaving loom, deposited by the Hon. G. Fowlds.

Shortly after the last annual meeting it was resolved to add a resident taxidermist, or preparator of specimens, to the staff of the Museum. Inquiries were made in England and America for a suitable person, and after full consideration it was resolved to appoint Mr. L. T. Griffin, formerly employed in a similar capacity in the Capetown and Pretoria Museums. Mr. Griffin arrived in Auckland shortly before the end of the year, and has already assumed his duties. His appointment will place the Museum on similar footing to the Southern Museums, each of which has a taxidermist as part of the permanent staff; and will enable the Zoological portion of the collections to be renovated and extended. The Council are confident that the action taken will result in important additions being made to the Museum, and a rapid improvement of the general appearance of the collections.

LIBRARY.—The Mackechnie Library Bequest has yielded its usual revenue during the year, which, as provided for by the Bequest, has been applied solely to the purchase of books. In all, three consignments have been ordered from London, two of which,

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numbering over 125 volumes, have been received, a list of the books appearing in the appendix to the report. The third is now on its way, and will shortly arrive. The Council have also purchased a small number of volumes from the library of Prof. Talbot Tubbs. In addition to these purchases, the usual exchanges and presentations from foreign societies have been received.

Acknowledgment should also be made of a donation of 23 volumes from Mr. Henry Shaw, who has been a frequent contributor to the Library in previous years. The magazines and other serial publications subscribed to by the Institute, a list of which will be found on another page, have been regularly received and to some extent circulated among the members.

The card catalogue of the Library, the preparation of which was authorised some time ago, has been completed during the year. The titles of the books have all been typed on the cards in duplicate; one set being used as a catalogue of authors, and the other as an index of subjects. The catalogue is now available for use, and should be of great advantage to readers in the Library.

In concluding the report, the Council invite the active assistance of the members and the general public in furthering the objects of the Institute, either by adding to the Museum or Library or by contributing papers to be read at the meetings, or in any other way that may seem advisable. They feel sure that in the future, as in the past, a liberal support will be given to an institution whose chief aim is to secure the diffusion of scientific and practical information throughout the community.



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The Treasurer in Account with the Auckland Institute and Museum Trust Board.

WORKING ACCOUNT.

February 19, 1908, to February 16, 1909:—

	£ s. d.		£ s. d.
Balance in the Bank of New Zealand, February 19, 1908	654 0 2	Books, Periodicals, Binding, and other Expenditure on the Library (£100 15s 1d derived from the Mackechnie Bequest)	196 17 8
Annual Subscriptions	147 0 0	Additions to Museum	16 2 0
Interest from Costley Bequest	370 11 3	Museum Requisites	40 5 1
Rents and Interest Transferred from Museum Endowment Account	426 15 6	Salaries	483 12 9
Interest transferred from Mackechnie Library Bequest Account	100 15 1	Printing, Advertising, Insurance, Gas, Stationery, Postages, and Miscellaneous Expences	132 15 10
Interest from the Nathan Bequest	5 4 2	Passage of Taxidermist from England	76 0 0
Interest from Life Subscription Account	9 15 0	Requisites for Taxidermist	28 7 2
Duplicate Specimens Sold	28 0 0	Buildings, Show Cases, Fittings, etc.	470 12 6
Miscellaneous Receipts	7 6 1	Land Tax	30 10 8
	<hr/> £1,749 7 3	Miscellaneous Payments	2 12 9
	<hr/>	Balance in Bank of New Zealand, February 16, 1909	271 10 10
	<hr/>		<hr/> £1,749 7 3

T. F. CHEESEMAN, TREASURER.

Examined and found correct.

February 18, 1909.

W. GORRIE, AUDITOR.

The Treasurer in Account with the Auckland Institute and Museum Trust Board.

MUSEUM ENDOWMENT ACCOUNT.

February 20, 1908, to February 16, 1909:—

	£ s. d.		£ s. d.
Balance in the Bank of New Zealand, February 20, 1908	2 7 8	Transferred to Working Account	426 15 6
Sales of Endowments	51 12 0	Transferred to Investment Account	50 0 0
Rents of Endowments	129 5 10	Bank Charges	0 10 0
Interest on Investments	297 19 8	Balance in Bank of New Zealand, February 16, 1909	3 19 8
	<hr/> £481 5 2		<hr/> £481 5 2

MACKECHNIE LIBRARY BEQUEST ACCOUNT.

	£ s. d.		£ s. d.
Balance in Bank of New Zealand, February 20, 1908	1 0 0	Transferred to Working Account for Purchase of Books	100 15 1
Interest on Investments	100 15 1	Bank Charges	0 10 0
	<hr/> £101 15 1	Balance in Bank of New Zealand, February 16, 1909	0 10 0
			<hr/> £101 15 1

T. F. CHEESEMAN, TREASURER.

Examined and found correct.

February 18, 1909.

W. GORRIE, AUDITOR.

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Investments of the Auckland Institute.

I.—COSTLEY BEQUEST—

	£	s.	d.	£	s.	d.
On Mortgage on Freehold Security at 5½ per cent.	4,000	0	0			
New Zealand Government 4 per cent. Debentures	1,900	0	0			
Dunedin Corporation 4½ per cent. Debentures	1,000	0	0			
On Mortgage on Freehold Security at 5 per cent.	650	0	0			
On Mortgage on Freehold Security at 5½ per cent.	150	0	0			
				7,700	0	0
Invested in site of Museum ...	2,500	0	0			
Expended in Erection of Ethnological Hall	1,500	0	0			
Expended in Show Cases and Fittings ...	450	0	0			
				4,450	0	0
Total of Costley Bequest ...				12,150	0	0

II.—MUSEUM ENDOWMENT—

New Zealand Government 4 per cent. Debentures	1,700	0	0			
Harbour Board 4½ per cent. Debentures...	1,000	0	0			
Gas Company Debentures ...	550	0	0			
On Mortgage on Freehold Security at 5 per cent.	1,000	0	0			
On Mortgage on Freehold Security at 5½ per cent.	420	0	0			
On Mortgage on Freehold Security at 6 per cent.	400	0	0			
On Mortgage on Freehold Security at 5 per cent.	350	0	0			
On Mortgage on Freehold Security at 5½ per cent.	350	0	0			
On Deposit with Auckland Gas Company Waiting Investment ...	500	0	0			
	92	4	3			
				6,362	4	3

III.—MACKECHNIE LIBRARY BEQUEST—

On Mortgage on Freehold Security at 5½ per cent.	1,300	0	0
On Mortgage on Freehold Security at 5½ per cent.	500	0	0
On Mortgage on Freehold Security at 5½ per cent.	200	0	0

IV.—NATHAN BEQUEST—

On Mortgage on Freehold Security at 6 per cent.			
			100

V.—LIFE SUBSCRIPTION ACCOUNT—

On Mortgage on Freehold Security at 6 per cent.	150	0	0
Deposited in Auckland Savings Bank ...	46	0	0

Total £20,808 4 3

Proportion bearing Interest ... £16,358 4 3

T. F. CHEESEMAN, TREASURER.

Deeds for Securities and Receipt for Debentures lodged with Bank of New Zealand examined and found in order.

February 18, 1909.

W. GORRIE, AUDITOR.

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Additions and Donations

TO THE
Library and Museum.

- Parliamentary Papers and Reports; New Zealand Hansard for 1908; New Zealand Official Year Book; Annual Report and other Publications of the Department of Agriculture; New Zealand Statistics and other Statistical Returns:—The New Zealand Government.
- Transactions of the New Zealand Institute, Vol. 40:—The New Zealand Institute.
- Bulletins 5 and 6 (new series) of the Geological Survey:—The Director of the Geological Survey.
- Journal of the Polynesian Society, parts of Vols. 16 and 17:—The Society.
- Bulletin of the Dominion Museum, No. 2:—The Museum.
- Report of the Dominion Laboratory for 1907:—The Laboratory.
- Records of the Canterbury Museum, Vol. 1, No. 2:—The Museum.
- Enlarged Photograph of Auckland Harbour:—Sir J. L. Campbell.
- Journal of the Linnean Society of New South Wales, parts of Vol. 33:—The Society.
- Annual Report of the Department of Mines, N.S. Wales:—The Department.
- Annual Report of the N.S. Wales Fishery Board; Stead's Edible Fishes of New South Wales; Stead's Beaked Salmon:—The Fishery Board of New South Wales.
- Annual Report of the Australian Museum, Sydney; Records of the Australian Museum, Vol. 7, parts 1-3:—The Museum.
- Transactions and Proceedings of the Royal Society of Victoria for 1907-1908:—The Society.
- Memoirs of the National Museum, Melbourne, No. 2:—The Museum.
- Transactions and Proceedings of the Royal Society of South Australia for 1907-1908:—The Society.
- Transactions of the Royal Society of Queensland for 1907-1908:—The Society.
- United States Consular Reports:—The Secretary of State, United States.
- McAtee's Food Habits of the Grosbeaks, and Birds that Eat Scale Insects; North American Fauna, Nos. 26 and 27; Report of the Entomologist for 1908; White's Relation of the Etiology of Bee Diseases to Treatment; Jones' Grape-leaf Skeletonizer; Phillip's Survey of Hawaiian Bee Keeping; Marlatt's National Collection of Coccidae; Pierce's Biology of certain Weevils; Morrill's Fumigation for the Citrus Fly; Marlatt's New Species of Diaspine Scale Insects; Gates' Bee Diseases in Massachusetts; Chittenden's Insects Injurious to the Loco Weeds; Bank's Revision of the Ixodoidea of the United States; Townsend's Rearings and Dissection of Tachinida; Johnson's Grape Root-worm Investigations; Various Circulars and Bulletins:—The Department of Agriculture, U.S.A.

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Kroeber's Ethnography of the Cahuilla Indians; Kroeber's Evidences of Occupation by the Miwok Indians; Barrett's Geography and Dialects of the Miwok Indians; Barrett's Ethnography of the Poino Indians; Dubois's Religion of the Luiseno Indians; Sparkman's Culture of the Luiseno Indians; Densmore's Polar Caps in Smilacina; Nichols's Californian Species of Corallines; Osterhout's Effects of Poisonous Gases on Plants.—The University of California.

Reports of the United States National Museum for 1907; Proceedings of the United States National Museum, Vol. 33; Various Bulletins; Contributions to the United States National Herbarium, Vol. 12:—The Smithsonian Institution.

Annual Report of the Field Columbian Museum; Greenman's New Spermatophytes from Mexico, etc.:—The Field Columbian Museum. Bulletin No. 3 of the Natural History Survey:—The Chicago Academy of Sciences.

Annals of the Observatory of Harvard College, Vol. 49:—The Observatory.

Transactions and Proceedings of the Nova Scotian Institute, parts of Vols. 11 and 12.—The Institute.

Report of the Geological Survey of Canada; Various Papers and Memoirs:—The Geological Survey of Canada.

Occasional Papers and other Publications of the Bishop Museum, Honolulu:—The Museum.

Mosquitos and Their Relations to Disease in Hawaii:—C. Goodhue.

Publications of the Philippine Weather Bureau for 1903:—The Bureau.

Journal of the Royal Colonial Institute, Vol. 39:—The Institute.

The Museums' Journal for 1908:—The Museums Association.

Symons's Monthly Meteorological Magazine:—The Editor.

Icones Plantarum, parts of Vol. 10; Kew Bulletin for 1908:—The Director, Kew.

Report of the Solar Physics Observatory for 1907:—The Observatory.

Publications of the Science and Art Museum, Dublin, for 1907-1908:—The Museum.

Kirke's Papers on Health:—Simpkin and Co.

Reports and other Publications of the Deutsche Seewarte:—The Seewarte.

BOOKS PRESENTED BY MR. H. SHAW:—

Veer's Three Voyages of W. Barents to the Arctic Regions (Hakluyt Society).

Markham's Voyages and Works of John Davis, the Navigator (Hakluyt Society).

Boulger's Life of Sir Stamford Raffles.

Raffles's History of Java, 2 vols.

Hall's Great Zimbabwe, Mashonaland.

Mockler-Ferryman's British Nigeria.

Weston's Mountaineering in the Japanese Alps.

Atkinson's Travels in the Upper and Lower Amur.

Podmore's Modern Spiritualism, 2 vols.

Bonwick's Port Phillip Settlement.

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- Danver's Portuguese in India, 2 vols.
Major's Voyages of the Venetian Brothers Zeno (Hakluyt Society).
Bonwick's William Buckley, the Wild White Man.
Parker's Euahlayi Tribe.
Wake's Development of Marriage and Kinship.
Wild's Thalassa, the Depth, Temperature, and Currents of the Ocean.
McLennan's Studies in Ancient History.
Helprecht's Explorations in Bible Lands.
Ling Roth's Great Benin.

BOOKS PURCHASED.

- Bailey's Cyclopaedia of American Agriculture, Vols. 1-3.
Clayden's Cloud Studies.
Lock's Recent Progress in the Study of Variation.
Bain's Senses and the Intellect.
Bain's Emotions and the Will.
Bain's Mental and Moral Science.
Mendeleef's Principles of Chemistry, 2 vols.
Seligman's Shifting and Incidence of Taxation.
Rayleigh's Theory of Sound, 2 vols.
J. J. Thomson's Corpuscular Theory of Matter.
Sidgwick's Elements of Politics.
Merriam's Mechanics of Materials.
Scharff's Geological History and Geographical Distribution of European Animals.
Arrhenius's Theories of Chemistry.
Jebb's Small Holdings of England.
Fountain's Rambles of an Australian Naturalist.
Sidgwick's Methods of Ethics.
Clark's Distribution of Wealth.
Larmor's Memoirs and Correspondence of Sir G. G. Stokes, 2 vols.
Dutton's Earthquakes in the Light of the New Seismology.
Hall and Neal's Ancient Ruins of Rhodesia.
Westermarck's History of Human Marriage.
Russell's River Development.
Shenstone's New Physics and Chemistry.
F. Darwin's More Letters of Charles Darwin, 2 vols.
Aitken's Road Making and Maintenance.
Dennett's At the Back of the Black Man's Mind.
Sherrington's Integrative Action of the Nervous System.
Jost's Lectures on Plant Physiology.
Kent's Veitch's Manual of the Coniferæ.
Hall's Book of the Rothamstead Experiments.

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- Sir D. Brandis's Indian Trees.
Beck's Nature of Ore Deposits, 2 vols.
Smartt's Distribution of Income.
Newbeggin's Colour in Nature.
Newcomb's Stars, a Study of the Universe.
De Vries's Plant-breeding.
Tuckey's Treatment by Hypnotism.
McIntosh's Industrial Alcohol.
Kidd's Sense of Touch in Mammals and Birds.
Gregory's Australasia.
Sheppard and Mees's Theory of the Photographic Process.
Stewart's Stereo-chemistry.
Fauth's Moon in Modern Astronomy.
Herdman's Report of the Lancashire Sea-fisheries for 1906.
Cotton and Mouten's Les Ultramicroscopes.
Lotsky's Progressus Rei Botanicae—parts.
Schenk's Plant Geography of the Subantarctic Region, 2 parts.
Urban's Symbolae Antillanae.
Burgoyne's University Farm Experiments.
Murray's Handbook of Greek Archaeology.
Collignon's Manual of Mythology.
Paris's Manual of Ancient Sculpture.
Hill's Handbook of Greek and Roman Coins.
Edward's Pharaohs, Fellahs, and Explorers.
Schuchhardt's Schliemann's Excavations.
Dennis's Cities and Cemeteries of Etruria, 2 vols.
Perrot and Chipiez's History of Art in Chaldæa and Assyria, 2 vols.
Dyer's Ancient Athens.
Murray's History of Greek Sculpture.
Wickstead's Alphabet of Economic Science.
Huxley's Aphorisms and Reflections.
Sir Oliver Lodge's Pioneers of Science.
Lord Avebury's Notes on the Life History of British Flowering Plants.
Percy Groom's Trees and Their Life Histories.
Kunz and Stevenson's Book of the Pearl.
Godman's Monograph of the Petrels, Parts 1-3.
Garstang's Burial Customs of Ancient Egypt.
Nernst's Applications of Thermodynamics to Chemistry.
Chatley's Problem of Flight.
Unwin's Treatise on Hydraulics.
Huntingdon's Pulse of Asia.
Fischer's Physiology of Alimentation.
Bower's Origin of a Land Flora.

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- Morgan's Animal Behaviour.
Stevenson's Crusaders in the East.
Geikie's Founders of Geology.
Thomsen's Thermochemistry.
Stokes's Burnett Lectures on Light.
Meldola's Chemistry of Photography.
Sir Oliver Lodge's Modern Views of Electricity.
Judd's Genetic Psychology for Teachers.
Poincare's Science and Hypothesis.
Wallace's Is Mars Habitable?
Mellor's Chemical Statics and Dynamics.
Reeves's Hints to Travellers, 2 vols.
Young's Stoichiometry.
Abbot's Problems of the Panama Canal.
Spitta's Microscopy.
Mann's Chemistry of the Proteids.
Ruhmer's Wireless Telegraphy.
Lanchester's Aerodynamics.
Hertz's Electric Waves.
Metchnikoff's Prolongation of Life.
Zeuner's Technical Thermodynamics.
MacCulloch's Childhood of Fiction.
Roscoe and Schorlemmer's Treatise on Chemistry, Vol. 2.
Fisher's Rate of Interest.
Gorst's New Zealand Revisited.
Henderson's Sir George Grey.
Hanausek's Microscopy of Technical Products.
Marshall's Principles of Economics, Vol. 1, last edition.
Salisbury's Physiography.
Maclaurin's Theory of Light.
Suess's Face of the Earth, Vols. 2 and 3.

-
- Human Skull, containing honey, found in a burial cave near Kawakawa :—A. H. Morgan.
Gould's Petrel (*Majaqueus Gouldi*) :—A. Dean.
White-eyed Duck (*Nyroca australis*) :—H. Rowland.
Red Stilt Plover (*Himantopus leucocephalus*) :—G. Newell.
Albino Miromiro (*Myiomoira Toitoi*) :—A. G. Kenderdine.
North Island Thrush (*Turnagra Hectori*) ; Three Skins of Rifleman (*Acanthisitta chloris*) :—P. H. Barlow.
Nest of Tui and Eggs :—A. J. Osborne.
Two-headed Chicken :—A. Woodcock.

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- Skin of an Australian Phalanger :—Miss Ruby White.
Collection of British Birds' Eggs :—Dr. J. S. Purdy.
Horned Lizard (*Phrynostoma*) :—W. G. Talmage, Utah.
Tahitian Mountain Trout :—J. L. Young.
Pipe Fish (Stigmatophora) :—A. McLeod.
Torpedo Ray :—J. Wakefield.
Lizards from Ulawa, Solomon Islands :—Rev. Mr. Ivens, per Captain Sinker.
Crustacean from the Manawatu Gorge :—J. Sofie.
Specimens of *Peripatus Novæ Zealandæ* :—Hallyburton Johnstone.
Macrothele Huttoni :—A. Gillanders.
Hepialus virescens :—A. O'Neill, H. V. Barlow, Mrs. Bennett.
Large Sea Anemone :—A. Wallace.
Deinacrida megacephala :—Poole.
Large Lode Specimens, containing Telluride of Gold from Waihi :—The Waihi Gold Mining Co.
Various Minerals from the Broken Hill Mine :—J. Bagnall.
Chalcedonic Quartz :—J. C. Harvey.
Volcanic Bombs from Mt. St. John :—H. Shrewsbury.
Flabellum and other Fossils from Hokianga :—J. F. Bourke.
Fossils from Yass, New South Wales :—R. McDonald.
Carbonate of Copper from Navilau, Fiji :—D. Patterson.
Fossils from the Upper Wanganui, near Manunui :—H. Mason.
Sample of Puriri Timber :—Karlson.
Chilian Plants :—D. Petrie.
Oko, or Bowl, for Serving up Food; Wooden Fish Hook; Kumara Spade :—G. Graham.
Japanese Armour; Maori Fishing Net and Fern Pounder :—Hallyburton Johnstone.
Two Carved Bone Barbs for Pigeon Spears :—Mr. Mackenzie.
Maori Spade, with Solid Step :—Winkle.
Greenstone Heitiki; Two Bone Harpoons; Bone Thatching Needle; Fish Hooks and Fishing Weights; Bone Patu; Greenstone Slab; Various other Articles :—Purchased.
Series of Fishing Weights :—The Dominion Museum.
Padlock from the Wreck of the Orpheus :—J. S. Fletcher.
Rigged Model of Pahi from the Low Archipelago; Model of Double Canoe from Manihiki :—J. L. Young (deposited).
Ancient Hand-weaving Loom :—Hon. G. Fowlds.
Silver Coin :—R. Scott.
Two Copper Coins :—A. Smith.

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List of Members

For the Year ending March 31st, 1909.

[Honorary and Life Members distinguished thus *.]

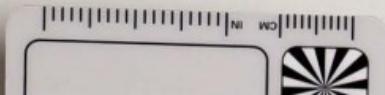
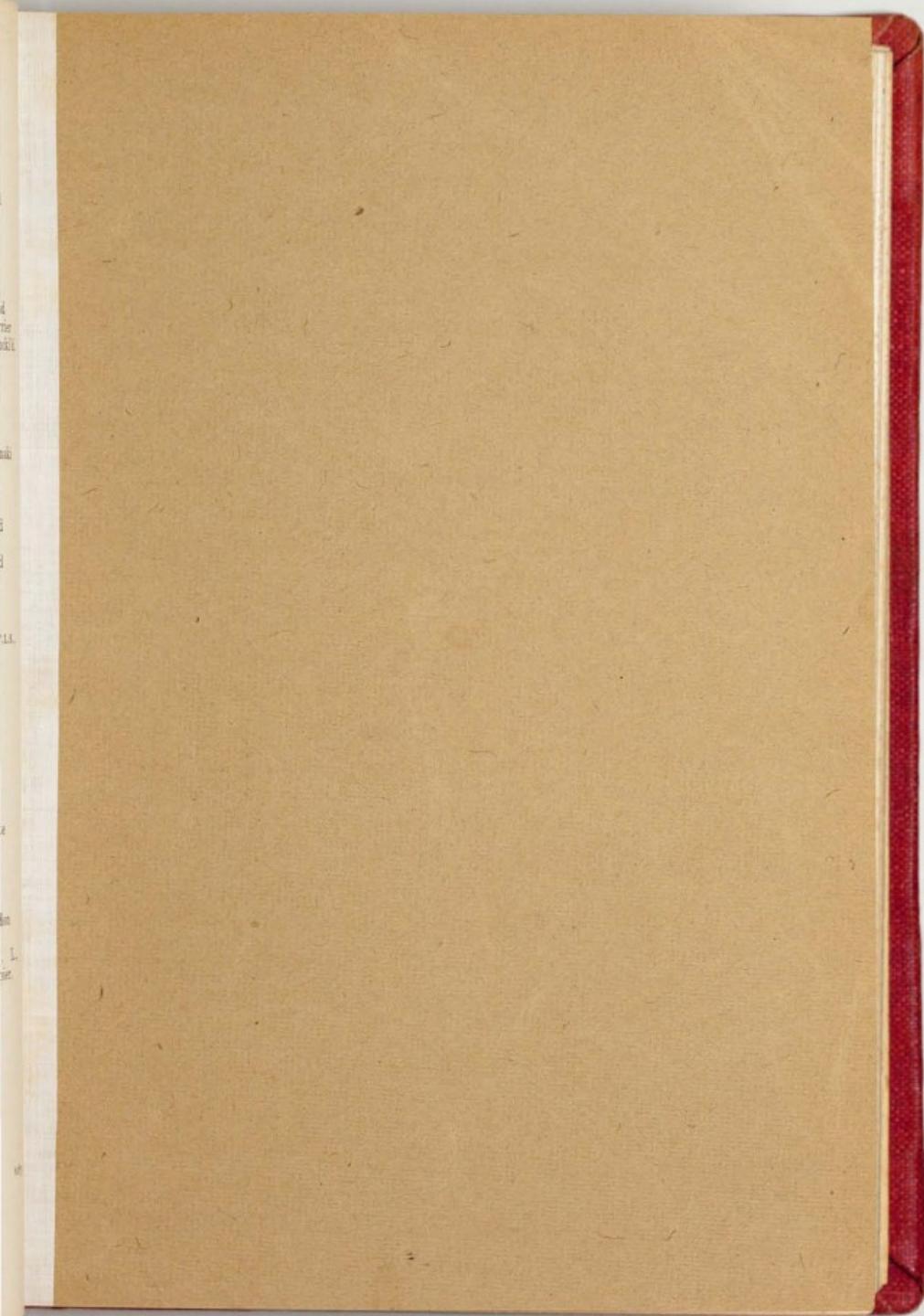
Aickin, G., Auckland	Cousins, H. G., Auckland
Aldis, M., Auckland	Cozens, G., Auckland
Allsop, G. W., Auckland	Craig, J. J., Auckland
Arnold, C., Auckland	Crosher, J., Auckland
Aubin, E. D., m.b., Thames	Cuff, J. C., F.S.A., Auckland
Bagnall, L. J., Auckland	De Clive Lowe, G. T. H., L.R.C.P., Auckland
Ball, W. T., Auckland	Darby, P., Auckland
Bankart, A. S., Auckland	Devereux, H. B., Waihi
Bartley, E., Devonport	Devore, A. E. T., Auckland
*Bates, T. L., Newcastle, N.S.W.	Douglas, W. S., Auckland
Batger, J., Auckland	Duthie, D. W., Auckland
Beere, D. M., c.e., Auckland	Earl, F., Auckland
Benjamin, E. R., Auckland	Edson, J., Devonport
Best, Elsdon, Ruatoki	Egerton, Prof. C. W., Auckland
Birks, L., c.e., Rotorua	Ewington, F. G., Auckland
Brett, H., Auckland	Florance, R. S., Russell
Briffault, R., m.b., Auckland	*Fowlds, Hon. G., m.p., Auckland
Broun, Major, F.E.S., Mount Al- bert	Fox, Rev. E. E., Ponsonby
Brown, E. C., Taumarunui	Garrard, C. W., Auckland
Brown, Prof. F. D., Auckland	George, G., Auckland
Buchanan, J., Auckland	Gibb, R., Ellerslie
Buddle, J. H., Auckland	Gilbert, T., Parnell
Buddle, T., Auckland	Girdler, Dr., Auckland
Burgess, E. W., Devonport	Goldie, D., Auckland
Burnside, W., Auckland	Gordon, H. A., Auckland
*Burton, Colonel, London	Gorrie, W., Auckland
Bush, W. E., c.e., Auckland	Grant, Miss J., Devonport
Buttle, J., Auckland	Griffin, Miss E. M., Auckland
Cameron, R., Auckland	Gray, S., Auckland
*Campbell, Sir J. L., m.d., Auckl'd.	Guiness, W., m.d., Devonport
Carr, R. A., Auckland	Haines, H., F.R.C.S., Auckland
Casey, M., Auckland	Hamer, J. H., c.e., Auckland
Cheal, P. E., Auckland	Hansen, P. M., Auckland
Cheeseman, T. F., F.L.S., Auckl'd.	Hardie, J., Auckland
Ching, T., Remuera	Haszard, H. D. M., Thames
Clark, A., Auckland	Hazard, W. H., Auckland
Clark, A., m.b., Ellerslie	Heaton, F., Auckland
Clark, H. C., Auckland	Herbert, T., Parnell
Clark, M. A., Auckland	Hodgson, J., Auckland
Clarke, E., Auckland	Horton, H., Auckland
Coates, T., Orakei	Houghton, C. V., Auckland
Cochrane, W. S., Auckland	Howden, J., Auckland
Combes, F. H., Auckland	Hutchinson, G., Auckland
Cooper, C., Auckland	
Cooper, Mr. Justice, Wellington	
Cottrell, A. J., Auckland	

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- Inglis, R. T., B.M., Auckland
Jarman, Prof. A., Auckland
Johnson, H. D., Te Aroha
Jones, H. W., Papakura
Kenderdine, J., Auckland
Kidd, A., M.P., Auckland
Kirker, J., Auckland
Kronfeld, G., Auckland
Lamb, G. E., M.A., Auckland
Langguth, E., Auckland
Lennox, J. M., Auckland
*Lennox, N. G., Sydney
Leys, T. W., Auckland
Lundon, J. R., Auckland
McMillan, C. C., Auckland
Mahoney, T., Auckland
Mair, Captain G., Rotorua
Mair, S. A. R., Rangitikei
Mair, Major W. G., Auckland
Martin, J., F.G.S., Auckland
McLean, M., Auckland
McDowell, W. C., M.D., Auckland
McLachlan, J. M., Auckland
Metcalfe, H. H., M.I.C.E., Auckl'd.
Miller, E. V., Chelsea
Milnes, H. A. E., Auckland
Mitchelson, Hon. E., Auckland
Moody, T. P., Hikurangi
Morgan, H. H., Northcote
Morton, H. B., Auckland
Moss, E. G. B., Auckland
Munro, G. C., Sandwich Islands
Murdoch, D. L., Auckland
Myers, A. M., Auckland
*Nathan, N. A., Auckland
Newton, G. M., Auckland
Nicholson, O., Auckland
Pabst, Dr., Auckland
Paris, Rev. P. R., Otaki
Partridge, H. E., Auckland
Patterson, G. W. S., Auckland
Peacock, T., Auckland
Petrie, D., F.L.S., Auckland
Philcox, W., Devonport
Philson, W. W., Auckland
Pond, J. A., Auckland
Powell, F. E., Auckland
Purdy, J. S., M.D., Auckland
Pycroft, A. T., Auckland
Rangihiroa, Dr., Auckland
Reid, J., Auckland
Renshaw, F., Auckland
Robertson, E., M.D., Auckland
Robertson, W. A., Auckland
Roche, H., Waihi
Rolfe, W., Auckland
Seegner, C., Auckland
Segar, Prof. H. W., Auckland
Shakespear, R. H., Little Barrier
Sharman, E. W., L.R.C.P., Auckl'd.
Shaw, H., Auckland
Simson, T., Auckland
Sinclair, A., Auckland
Smeeton, H. M., Auckland
Smith, H. G. S., Auckland
Smith, S. P., F.R.G.S., Taranaki
Smith, W. H., Auckland
Somerville, J. M., Chelsea
Speight, W. J., Auckland
Spencer, W. C. C., Auckland
Stewart, J., C.E., Auckland
Stopford, R., M.D., Auckland
Streeter, S. C., Auckland
Stringer, H. G., Auckland
Thomas, Prof. A. P. W., F.L.S.,
Auckland
Tibbs, J. W., Auckland
*Tinne, H., London
Upton, J. H., Auckland
Urquhart, A. T., Karaka
Vaile, E. E., Auckland
Walsh, Archd. P., Waimate
Waterworth, A., Auckland
Ward, P., Auckland
Webster, J., Hokianga
Webster, Rev. W., Waiuku
*Weetman, S., F.R.G.S., London
Wells, T. U., Auckland
Williams, Right Rev. W. L.,
Bishop of Waiau, Napier.
Wilson, A. P., Auckland
Wilson, W. R., Auckland
*Withy, E., Rotorua
Wyllie, A., C.E., Auckland
Yates, E., Auckland
Young, J. L., Auckland

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